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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,225	10/01/2004	Rolf-Dieter Pavlik	2002P03966WOUS	6264
7590 08/23/2007 Siemens Corporation Intellectual Property Department			EXAMINER	
			KIM, EDWARD J	
170 Wood Avenue South Iselin, NJ 08830			ART UNIT	PAPER NUMBER
•			2109	
			MAIL DATE	DELIVERY MODE
			08/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<u> </u>	Application No.	Applicant(s)			
	10/510,225	PAVLIK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Edward J. Kim	2109			
The MAILING DATE of this communication app					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time 17 rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 1) Responsive to communication(s) filed on 01 Oc 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. ace except for formal matters, pro				
Disposition of Claims	•				
4) Claim(s) 11-29 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 11-29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 10/01/2007 is/are: a) Applicant may not request that any objection to the confidence of the	accepted or b) objected to by drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/01/2004, 02/27/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Inventorship

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Information Disclosure Statement

3. The information disclosure statements (IDS) were submitted on 10/01/2004 and 02/27/2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

4. The drawings are objected since they fail to show necessary textual labels of features or symbols in Figures 1-5 as described in the specification. Textual labels would give the viewer necessary details to fully understand Figures 1-5 at a glance. A descriptive textual label for each number element in these figures would be needed to

fully and understand these figures without substantial analysis of the detailed specification. See 37 CFR 1.84 (o) below:

(o) Legends . Suitable descriptive legends may be used subject to approval by the Office, or may be required by the examiner where necessary for understanding of the drawing. They should contain as few words as possible.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 11-25, 27, 28, 29 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 11-23, 26, 27, 28, 29, 30 of copending Application #10510221. Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to one of ordinary skill in the art at the time of the invention to have a web server accommodate multiple mechanisms in software modules to carry out each functionalities. The mechanisms of software modules can be integrated into one or divided up into multiples following a certain criteria, and not impose any improvements to the system thereof. It is well-known and common in the art of endeavor for a component of a network to have access to a transport layer for data communication purposes.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

7. Claims 11-26, 28, 29 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 10-22, 25, 26, 27, 28, 29 of copending Application #10510312. Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to one of ordinary skill in the art at the time of the invention to have a web server accommodate multiple mechanisms in software modules to carry out each

functionalities. The mechanisms of software modules can be integrated into one or divided up into multiples following a certain criteria, and not impose any improvements to the system thereof. It is well-known and common in the art of endeavor for a component of a network to have access to a transport layer for data communication purposes.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 11-28 are rejected under 35 U.S.C. 101, because the claimed invention is directed to non-statutory subject matter.

Regarding claim 11, although the preamble of the claim recites "a web server", the body of the claim includes only "software modules". Claim 11 neither includes any computer hardware component(s) nor positively recites that the cited software programs are stored on a computer medium that can be read by a machine. As such, claim 11 is directed to software per se which is non-functional descriptive material and non-statutory.

Similarly, claims 12-27 are directed to software per se which is non-functional descriptive material and non-statutory.

10. Claim 28 is rejected under 35 U.S.C. 101, because the claimed invention is directed to non-statutory subject matter.

Regarding claim 28, although the preamble of the claim recites "an automation system" and "a web server", the body of the claim includes only "software modules".

Claim 28 neither includes any computer hardware component(s) nor positively recites that the cited software programs are stored on a computer medium that can be read by a machine. As such, claim 28 is directed to software per se which is non-functional descriptive material and non-statutory.

11. Claim 29 is rejected under 35 U.S.C. 101, because the claimed invention is directed to non-statutory subject matter.

Claim 29 does not positively recite that the cited "computer software product" is on a computer medium that can be read by a machine. As such, claim 30 is directed to non-functional descriptive and non-statutory material.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 13. <u>Claims 11-22, 24, 25, 27, and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Kuchlin et al. ("HIGHROBOT: Telerobotics in the Internet", Copyright 1997).</u>

Regarding claim 11, Kuchlin et al. discloses, a web server comprising software modules, wherein a first software module comprises a first mechanism for implementing an automation functionality (Kuchlin et al., Section 1, Section 4).

Regarding claim 12, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 11, and further discloses the web server further comprising a connection to a communication network (**Kuchlin et al., Section 3.2, Section 5**).

Regarding claim 13, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 12, and further discloses, wherein the communication network is the Internet (**Kuchlin et al., Section 3.2, Section 5**).

Regarding claim 14, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 11, and further discloses, wherein Internet protocols are provided for communicating between the software modules and for communicating between the software modules and components outside of the web server **(Kuchlin et al., Section 3.2, Section 4.1, Section 4.2)**.

Regarding claim 15, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 12, and further discloses, wherein Internet protocols are provided for communicating between the software modules and for communicating between the software modules and components outside of the web server **(Kuchlin et al., Section 3.2, Section 4.1, Section 4.2)**.

Regarding claim 16, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 11, and further discloses, wherein the web server is adapted for configuring and administrating the software modules (**Kuchlin et al.**, **Section 4.2.2**, **Section 4.2.4**).

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Regarding claim 17, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 12, and further discloses, wherein the web server is adapted for configuring and administrating the software modules (**Kuchlin et al.**, **Section 4.2.2**, **Section 4.2.4**).

Regarding claim 18, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 14, and further discloses, wherein the web server is adapted for configuring and administrating the software modules (**Kuchlin et al.**, **Section 4.2.2**, **Section 4.2.4**).

Regarding claim 19, Kuchlin et al. disclosed the limitations, substantially as claimed, as described in claim 11, and further discloses, wherein the first software module has a connection to an industrial automation system (Kuchlin et al., Section 2, Section 4.1, Section 3.2, Section 4).

Regarding claim 20, Kuchlin et al. disclosed the limitations, substantially as claimed, as described in claim 12, and further discloses, wherein the first software module has a connection to an industrial automation system (Kuchlin et al., Section 2, Section 4.1, Section 3.2, Section 4).

Regarding claim 21, Kuchlin et al. disclosed the limitations, substantially as claimed, as described in claim 14, and further discloses, wherein the first software module has a connection to an industrial automation system (Kuchlin et al., Section 2, Section 4.1, Section 3.2, Section 4).

Regarding claim 22, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 16, and further discloses, wherein the first software

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module has a connection to an industrial automation system (Kuchlin et al., Section 2, Section 4.1, Section 3.2, Section 4).

Regarding claim 24, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 11, and further discloses, wherein the web server is connected via a communication network to a web browser as a control and monitoring system (**Kuchlin et al.**, **Section 4.1**, **Section 4.2.3**, **Section 4.3**).

Regarding claim 25, Name disclosed the limitations, substantially as claimed, as described in claim 12, and further discloses, wherein the web server is connected via a communication network to a web browser as a control and monitoring system (Kuchlin et al., Section 4.1, Section 4.2.3, Section 4.3).

Regarding claim 26, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 14, and further discloses, wherein the web server is connected via a communication network to a web browser as a control and monitoring system (**Kuchlin et al.**, **Section 4.1**, **Section 4.2.3**, **Section 4.3**).

Regarding claim 27, **Kuchlin et al.** disclosed the limitations, substantially as claimed, as described in claim 11, and further discloses, wherein the web server has a real-time operating system (**Kuchlin et al., Section 2, Section 4**).

Regarding claim 28, **Kuchlin et al.**, discloses an automation system comprising a web server, wherein the web server comprises software modules, wherein a first software module comprises a first mechanism for implementing an automation functionality **(Kuchlin et al., Section 4)**.

Regarding claim 29, Kuchlin et al. discloses a computer program product comprising a web server, wherein the web server comprises software modules, wherein a first software module comprises a first mechanism for implementing an automation functionality (Kuchlin et al., Section 1, Section 4).

Claim Rejections - 35 USC § 103

- 14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 15. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 16. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuchlin et al. ("HIGHROBOT: Telerobotics in the Ineternet) as applied to claim 11 above, and further in view of Modeste et al. (US Pub. #2003/0056012 A1).

Regarding claim 23, **Kuchlin et al.**, disclosed the limitations, substantially as claimed, as described in claim 11, but fails to teach the use of a firewall for the connection to the Internet. However, the use of a firewall for security purposes is well-known in the art as evidenced by Modeste et al. Modeste et al. teaches a web server

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comprising a connection to the internet using a firewall (Fig. 4, Section [0041]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Kuchlin et al. and Modeste et al. to prevent unauthorized access to the web server and the industrial automation system through the use of a firewall.

Conclusion

17. **Examiner's Note:** Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Jammes, US Patent #7162510, Communication System for a Control System
 Over Ethernet and IP Networks, discloses a communication system for
 communication within a control system.

- Calkin et al., Visualisation, Simulation & Control Of A Robotic System Using
 Internet Technology, IEEE, 1998, discloses a virtual robotics and control
 laboratory, "MuMaTE".
- Taylor et al., Internet Robots: A New Robotics Niche, IEEE Robotics&
 Automation Magazine, 2000, discusses teleoperation.
- Steger et al., US Patent #6411987, Industrial automation system and method
 having efficient network communication, discloses a system and method of
 industrial automation providing improved network transfer of data between
 nodes.
- Steger et al., US Patent #6505247, Industrial automation system and method for efficiently transferring time-sensitive and quality-sensitive data.
- Eller et al., US Patent #6643555, Method and apparatus for generating an application for an automation control system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward J. Kim whose telephone number is (571) 270-3228. The examiner can normally be reached on Monday - Friday 7:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef can be reached on (703) 272-5026. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EJK 08/20/2007

MARVIN LATEEF
SUPERVISORY PATENT EXAMINER